<110> Adams, Thomas R

<120> Water-Deficit-TolerantTransgenic Plants

<130> 38-21(52578)B

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<170> PatentIn version 3.2

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Ile Pro Ala Asn Gly Lys Thr Ile Pro Ala Asn Gly Lys Ile Ala Lys
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Asp Ala Lys Glu Thr Val Gln Glu Cys Val Ser Glu Phe Ile Ser Phe
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Ile Asn Gly Asp Asp Leu Leu Trp Ala Met Ala Thr Leu Gly Phe Glu
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Asp Tyr Ile Glu Pro Leu Lys Val Tyr Leu Gln Lys Tyr Arg Glu Met
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Glu Gly Asp Ser Lys Leu Thr Ala Lys Ser Ser Asp Gly Ser Ile Lys
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Lys Asp Ala Leu Gly His Val Gly Ala Ser Ser Ser Ala Ala Gln Gly
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Asp Arg Phe Leu Pro Ile Ala Asn Ile Ser Arg Ile Met Lys Lys Ala
            35   40   45

Ile Pro Ala Asn Gly Lys Ile Ala Lys Asp Ala Lys Glu Thr Val Gln
    50   55   60

Glu Cys Val Ser Glu Phe Ile Ser Phe Ile Thr Ser Glu Ala Ser Asp
65   70   75   80

Lys Cys Gln Arg Glu Lys Arg Lys Thr Ile Asn Gly Asp Asp Leu Leu
                85   90   95

Trp Ala Met Ala Thr Leu Gly Phe Glu Asp Tyr Ile Glu Pro Leu Lys
        100   105   110

Val Tyr Leu Gln Lys Tyr Arg Glu Met Glu Gly Asp Ser Lys Leu Thr
        115   120   125

Ala Lys Ser Ser Asp Gly Ser Ile Lys Lys Asp Ala Leu Gly His Val
    130   135   140

Gly Ala Ser Ser Ser Ala Ala Glu Gly Met Gly Gln Gln Gly Ala Tyr
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Asn Gln Gly Met Gly Tyr Met Gln Pro Gln Tyr His Asn Gly Asp Ile
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gagaccgtgc aggagtgcgt ctccgagttc atctccttca tcactagcga agcgagtgac   240

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acgctggggt ttgaagacta cattgaaccc ctcaaggtgt acctacagaa gtacagagag   360

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gaatgcgttt ctgagttcat cagcttcatt accagcgagg cgagtgagaa atgccagaag   240

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        35                  40                  45

Gly Lys Ile Ala Lys Asp Ala Lys Asp Thr Met Gln Glu Cys Val Ser
    50                  55                  60

Glu Phe Ile Ser Phe Ile Thr Ser Glu Ala Ser Glu Lys Cys Gln Lys
65                  70                  75                  80

Glu Lys Arg Lys Thr Ile Asn Gly Asp Asp Leu Leu Trp Ala Met Ala
                85                  90                  95

Thr Leu Gly Phe Glu Asp Tyr Ile Glu Pro Leu Lys Val Tyr Leu Ala
            100                 105                 110

Arg Tyr Arg Glu Ala Glu Gly Asp Thr Lys Gly Ser Ala Arg Ser Gly
        115                 120                 125

Asp Gly Ser Ala Thr Pro Asp Gln Val Gly Leu Ala Gly Gln Asn Ser
    130                 135                 140

Gln Leu Val His Gln Gly Ser Leu Asn Tyr Ile Gly Leu Gln Val Gln
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Pro Gln His Leu Val Met Pro Ser Met Gln Ser His Glu
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        35                  40                  45

Ala Lys Asp Thr Val Gln Glu Cys Val Ser Glu Phe Ile Ser Phe Ile
    50                  55                  60

Thr Ser Glu Ala Ser Asp Lys Cys Gln Lys Glu Lys Arg Lys Thr Val
65                  70                  75                  80

Asn Gly Asp Asp Leu Leu Trp Ala Met Ala Thr Leu Gly Phe Glu Asp
                85                  90                  95

Tyr Leu Glu Pro Leu Lys Ile Tyr Leu Ala Arg Tyr Arg Glu Leu Glu
            100                 105                 110

Gly Asp Asn Lys Gly Ser Gly Lys Ser Gly Asp Gly Ser Asn Arg Asp
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Ala Gly Gly Gly Val Ser Gly Glu Glu Met Pro Ser Trp
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Lys Lys Ala Leu Pro Xaa Asn Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Ile
            20                  25                  30


Ala Lys Asp Ala Lys Xaa Thr Xaa Gln Glu Cys Val Ser Glu Phe Ile
        35                  40                  45


Ser Phe Ile Thr Ser Glu Ala Ser Xaa Lys Cys Gln Xaa Glu Lys Arg
    50                  55                  60

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Lys Thr Ile Asn Gly Asp Asp Leu Leu Trp Ala Met Ala Thr Leu Gly
65                  70              75                  80

Phe Glu Asp Tyr Ile Glu Pro Leu Lys Val Tyr Leu Xaa Xaa Tyr Arg
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                20              25                  30

Gln Gln Gly Ala Tyr Asn Gln Gly Met Gly Tyr Met Gln Pro Gln Tyr
          35              40              45

His Asn Gly Asp Ile Ser Asn
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